



Sheet 1 of 12 FIG. 1
Inventor: Farmer
U.S.S.N.: TBA – filed herewith
Title: labibition of Pathogens by Probiotic Bacteria
Docket No.: 19374-509CON

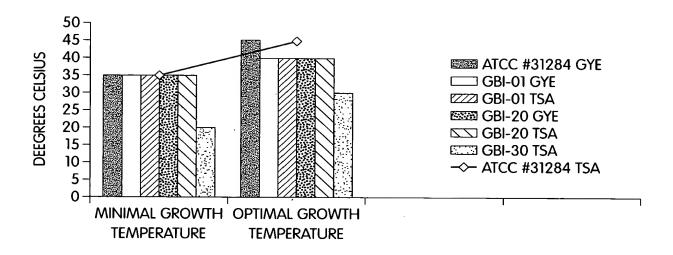


Fig. 1

Sheet 2 of 12 FIG. 2 Inventor: Farmer U.S.S.N.: TBA – filed herewith Title: Inhibition of Pathogens by Problotic Bacteria Docket No.: 19374-509CON

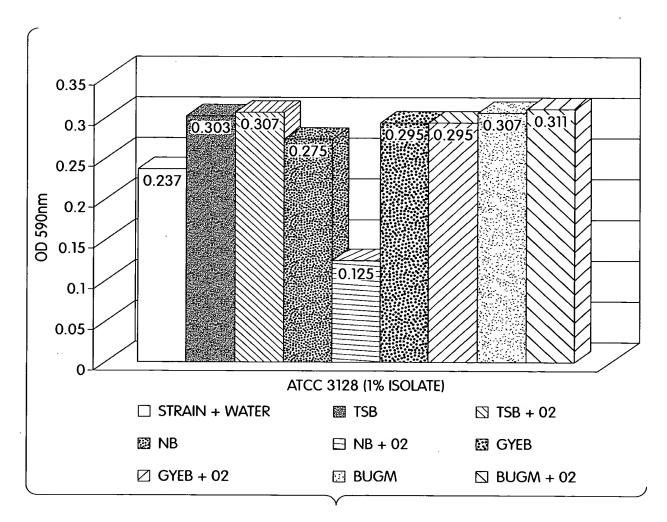


Fig. 2

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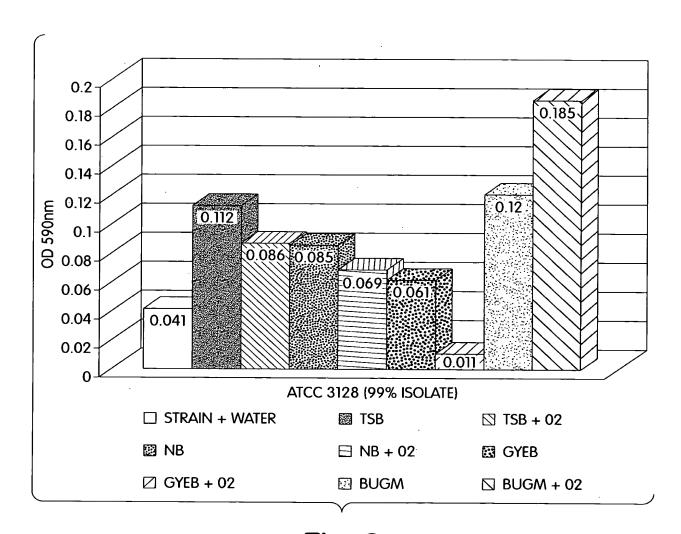


Fig. 3

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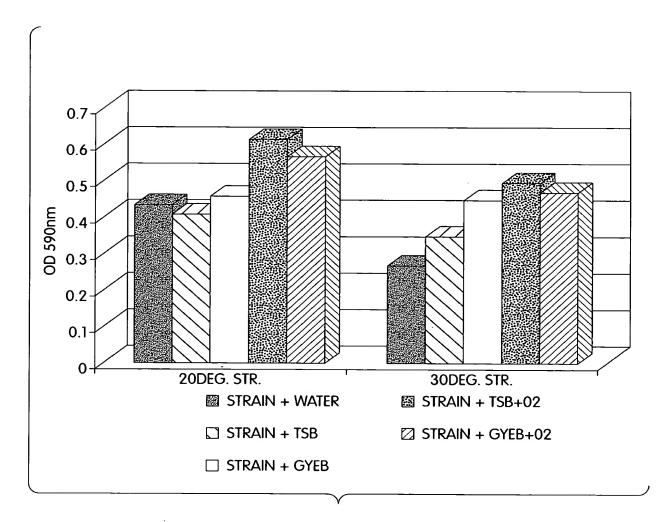


Fig. 4

Sheet 5 of 12 FIG. 5
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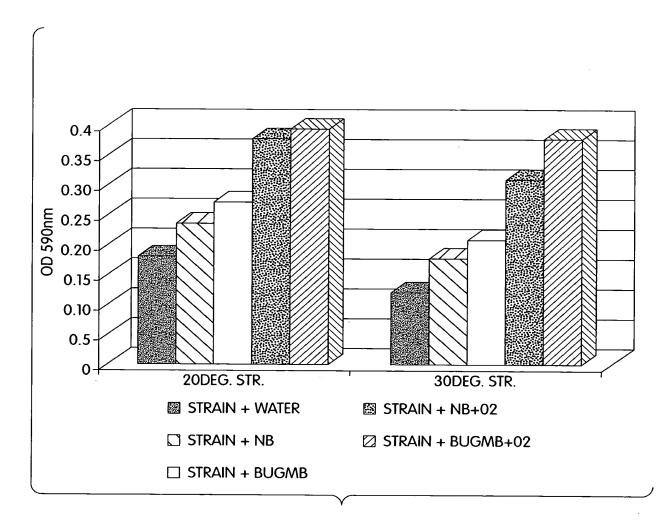
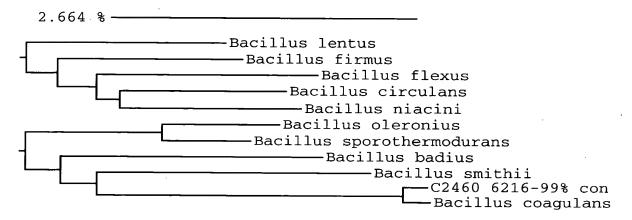


Fig. 5

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```
1549 C2460 6216-99% con
Alignment:
 0.65 % 1549
              Bacillus coagulans
 4.84 % 1548
              Bacillus oleronius
 5.36 % 1550
              Bacillus smithii
 5.62 % 1548
              Bacillus sporothermodurans
 5.65 % 1551
              Bacillus badius
 5.79 % 1547
              Bacillus firmus
 5.85 % 1547
              Bacillus lentus
 5.90 % 1543
              Bacillus circulans
 5.95 % 1545
              Bacillus niacini
 6.30 % 1548
              Bacillus flexus
```

Neighbor Joining Tree



Concise Alignment

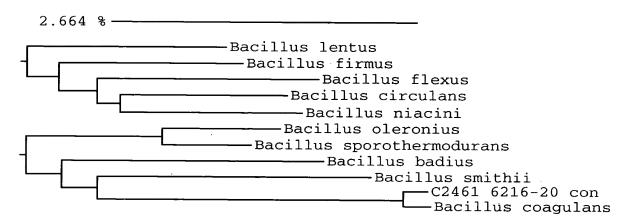
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1\\111222222241\\347011256784\\902967240204 C2460 6216-99% con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T) Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)
```

Fig. 6

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```
Alignment:
             1549 C2461 6216-20 con
 0.65 % 1549
              Bacillus coagulans
 4.84 % 1548
              Bacillus oleronius
 5.36 % 1550
              Bacillus smithii
 5.62 % 1548
              Bacillus sporothermodurans
 5.65 % 1551
              Bacillus badius
 5.79 % 1547
              Bacillus firmus
 5.85 % 1547
              Bacillus lentus
 5.90 % 1543
              Bacillus circulans
 5.95 % 1545
              Bacillus niacini
 6.30 % 1548
              Bacillus flexus
```

Neighbor Joining Tree



Concise Alignment

```
1
111222222241
347011256784
902967240204
C2461 6216-20 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T)
Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)
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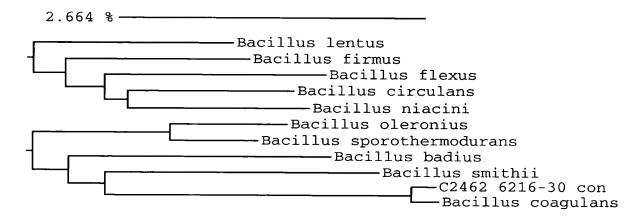
Fig. 7

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```
Alignment:
             1549 C2462 6216-30 con
              Bacillus coagulans
 0.65 % 1549
 4.84 % 1548
              Bacillus oleronius
 5.36 % 1550
              Bacillus smithii
              Bacillus sporothermodurans
 5.62 % 1548
 5.65 % 1551
              Bacillus badius
 5.79 % 1547
              Bacillus firmus
 5.85 % 1547
              Bacillus lentus
 5.90 % 1543
              Bacillus circulans
 5.95 % 1545
              Bacillus niacini
 6.30 % 1548
              Bacillus flexus
```

Neighbor Joining Tree

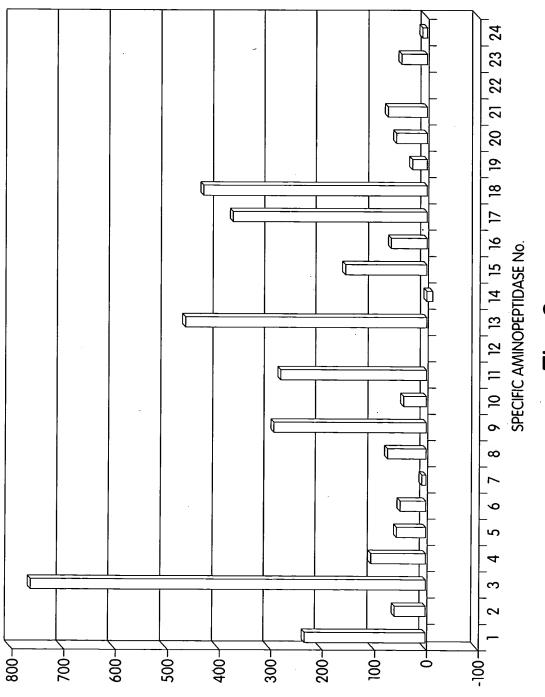


Concise Alignment

1 111222222241 347011256784 902967240204

C2462 6216-30 con TCGAYTTWTTYC (SEQ ID NO:1; where r = A or G, y = C or T, and w = A or T) Bacillus coagulans CTRGCGCACCCG (SEQ ID NO:2; where r = A or G, y = C or T, and w = A or T)

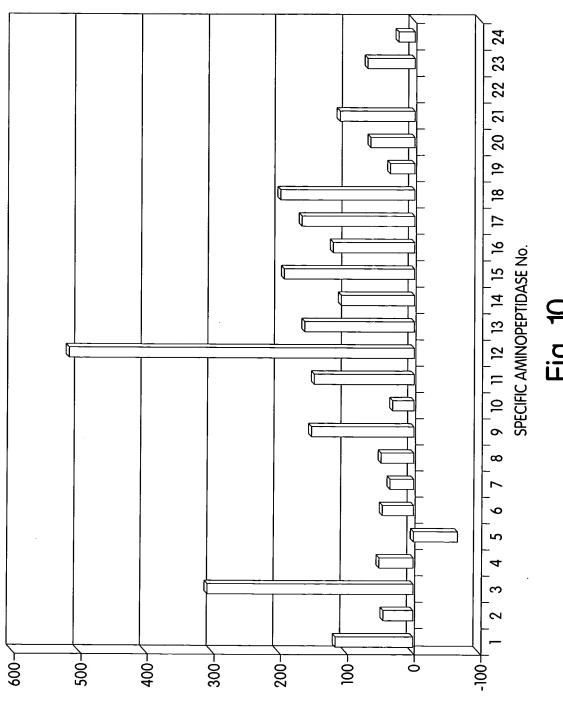
Sheet 9 of 12 FIG. 9
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FLUORESCENCE INTENSITY

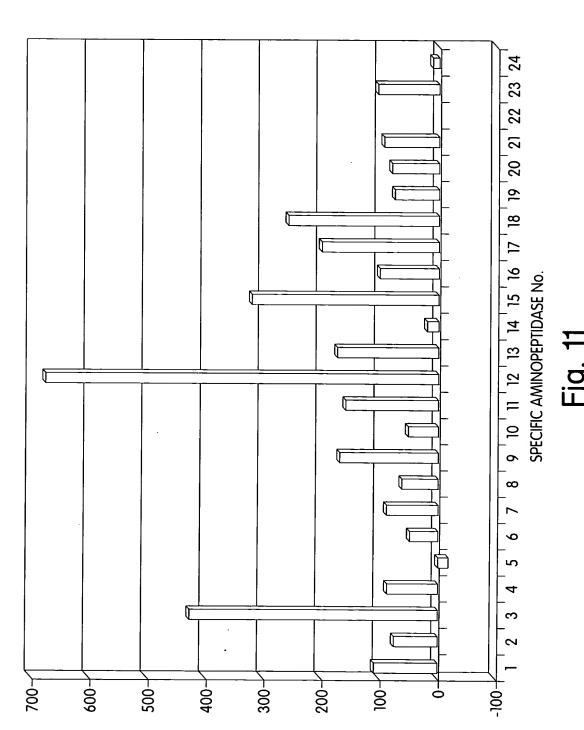
Fig. 9

Sheet 10 of 12 FIG. 10 Inventor: Farmer U.S.S.N.: TBA – filed herewith Title: Inhibition of Pathogens by Problotic Bacteria Docket No.: 19374-509CON



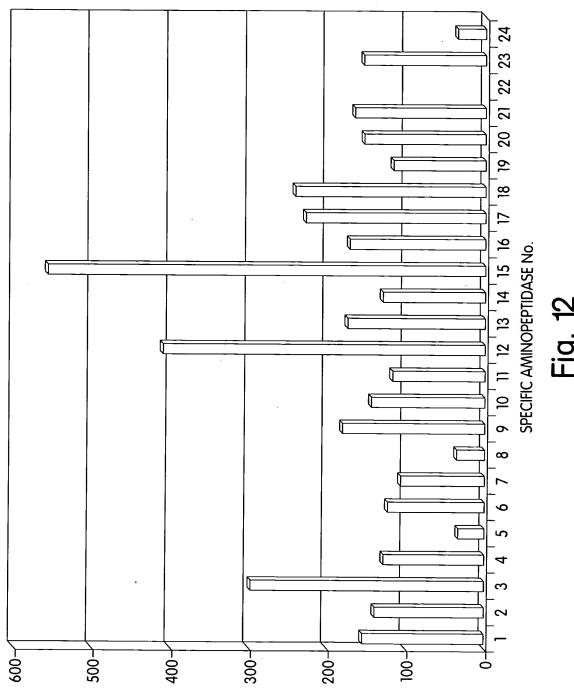
FLUORESCENCE INTENSITY

Sheet 11 of 12 FIG. 11
laventor: Farmer
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FLUORESCENCE INTENSITY

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FLUORESCENCE INTENSITY